**APPENDIX H** 

**Utility Relocation Cost Estimates** 

## SOUTHSIDE DRIVE CONCEPTUAL STAGE UTILITY RELOCATION COST ESTIMATE SOUTH SECTION From New Cut Road to National Turnpike 3-LANE ALTERNATIVE

ltem	Unit	Quantity	Cost Per Unit	Cost
ELECTRIC				
Furnish and Install Power Poles (LG&E) <=60'	Each	5	\$6,000	\$30,000
Furnish and Install Stub Poles	Each	1	\$2,500	\$2,500
Furnish and Install Anchors and Down Guys	Each	3	\$450	\$1,350
Electric Total:				\$33,850
CABLE TELEVISION			ede di Patangiya	
Furnish and Install Aerial C.A.T.V.	Lin. Ft.	0	\$10	\$0
Furnish and Install C.A.T.V. in Conduit	Lin. Ft.	0	\$28	\$0
Furnish and Install C.A.T.V. Direct Buried	Lin. Ft.	100	\$30	\$3,000
Furnish and Install Aerial Fiber C.A.T.V.	Lin. Ft.	0	\$15	\$0
Cable Television Total:				\$3,000
NATURAL GAS				
Furnish and Install 2" Gas Main	Lin. Ft.	0	\$35	\$0
Tie-In 2" Gas Main	Each	0	\$1,500	\$0
Furnish and Install 4" Gas Main	Lin. Ft.	1150	\$35	\$40,250
Tie-In 4" Gas Main	Each	4	\$1,500	\$6,000
Furnish and Install 8" Gas Main	Lin. Ft.	0	\$56	\$0
Tie-In 8" Gas Main	Each	0	\$2,000	\$0
Furnish and Install 12" Gas Main	Lin. Ft.	0	\$87	\$0
Tie-In 12" Gas Main	Each	0	\$3,500	\$0
F. & I. 10" Steel Casing Pipe (Bored and Jacked)	Lin. Ft.	0	\$130	\$0
F. & I. 16" Steel Casing Pipe (Bored and Jacked)	Lin. Ft.	0	\$180	\$0
Gas Service Connection (Cut on Near Side)	Each	51	\$100	\$5,100
Gas Service Connection (Bore under Rdwy. To Far Side)	Each	0	\$500	\$0
Natural Gas Total:				\$51,350
WATER			1 An=T	
Furnish and Install 2" Copper Water Main	Lin. Ft.	0	· · · · · · · · · · · · · · · · · · ·	\$0
Tie-In 2" Water Main	Each	0		\$0
Furnish and Install 6" Ductile Iron Water Main	Lin. Ft.	300		\$12,000
Tie-In 6" Water Main	Each	6		\$15,000
Furnish and Install 8" Ductile Iron Water Main	Lin. Ft.	50	l	\$2,700
Tie-In 8" Water Main	Each	1 1		\$2,500
Furnish and Install 12" Ductile Iron Water Main	Lin. Ft.	3900		\$261,300
Tie-In 12" Water Main	Each	9		\$22,500
Furnish and Install 60" Concrete Water Main	Lin. Ft.	0	· · · · · · · · · · · · · · · · · · ·	\$0
Tie-In 60" Water Main	Each	0		\$0
F. & I. 10" Steel Casing Pipe (Bored and Jacked)	Lin. Ft.	0		\$0
F. & I. 16" Steel Casing Pipe (Bored and Jacked)	Lin. Ft.	0		\$0
Fire Hydrants	Each	6		\$15,000
Water Service Connection (Cut on Near Side)	Each	30		\$3,000
Water Service Connection (Bore under Rdwy. To Far Side)	Each	26	\$500	\$13,000
Water Total:				\$347,000

## SOUTHSIDE DRIVE CONCEPTUAL STAGE UTILITY RELOCATION COST ESTIMATE SOUTH SECTION From New Cut Road to National Turnpike 3-LANE ALTERNATIVE

Item	Unit	Quantity	Cost Per Unit	Cost
TELEPHONE				
Furnish and Install Telephone Pole	Each	2	\$5,000	\$10,000
Furnish and Install Anchors and Down Guys	Each	3	\$450	\$1,350
Furnish and Install 600 Pair Aerial Telephone Cable (Copper)	Lin. Ft.	0	\$17	\$0
Furnish and Install 2100 Pair Tele. Cable in Conduit (Copper)	Lin. Ft.	0	\$75	\$0
Furnish and Inst. 200 Pair Direct Buried Tele. Cable (Copper)	Lin. Ft.	50	\$12	\$600
Furnish 60 Strand Fiber Optic Cable (Delivered to Site)	Lin. Ft.	0	\$5	\$0
Direct Buried 108 Strand Fiber Optic Cable	Lin. Ft.	0	\$14	\$0
60 Strand Fiber Optic Cable Installed in Conduit	Lin. Ft.	0	\$20	\$0
Fiber Optic Cable Splicing for Conduit Installation	Lump Sum	0	\$7,200	\$0
Furnish and Install Pre-Cast Standard Manhole	Each	0	\$17,000	\$0
Telephone Total:				\$11,950
SANITARY SEWER			e de la companya de	
Furnish and Install 6" Sanitary Sewer	Lin. Ft.	0	\$45	\$0
Furnish and Install 8" Sanitary Sewer	Lin. Ft.	0	\$52	\$0
Furnish and Install 10" Sanitary Sewer	Lin. Ft.	0	\$60	\$0
Furnish and Install 12" Sanitary Sewer	Lin. Ft.	0	\$65	\$0
Furnish and Install Sanitary Sewer Manhole	Each	0	\$3,500	\$0
Adjust Sanitary Sewer Manhole to Grade	Each	0	\$550	\$0
Reconstruct Sanitary Sewer Manhole	Each	0	\$3,500	\$0
Reconnect Sewer Service	Each	56	\$400	\$22,400
Sanitary Sewer Total:	Lacii	. 50	Ψ+00	\$22,400
Utility Relocation Estimate Summary		•		
Electric				\$33,850
Cable Television				\$3,000
Natural Gas				\$51,350
Water				\$347,000
Telephone				\$11,950
Sanitary Sewer				\$22,400
Sub-Total (2004 Unit Prices):			-	\$469,550
4.7% Escalation for 2005 (Per ENR Magazine)				\$22,069
Sub-Total (Adjusted for 2005):			-	\$491,619
Contingencies	15%			\$73,743
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TOTAL UTILITY RELOCATION COST ESTIMATE

Last revised: YMH/DPM 5/10/2005

**State Forces Engineering** 

\$49,162

\$614,524

# SOUTHSIDE DRIVE CONCEPTUAL STAGE UTILITY RELOCATION COST ESTIMATE NORTH SECTION From National Turnpike to Strawberry Lane 3-LANE ALTERNATIVE

ltem	Unit	Quantity	Cost Per Unit	Cost
ELECTRIC				
Furnish and Install Power Poles (LG&E) <=60'	Each	3	\$6,000	\$18,000
Furnish and Install Stub Poles	Each	0	\$2,500	\$0
Furnish and Install Anchors and Down Guys	Each	2	\$450	\$900
Electric Total:				\$18,900
CABLE TELEVISION		a Minney Conserv		1985, 848.5
Furnish and Install Aerial C.A.T.V.	Lin. Ft.	0	\$10	\$0
Furnish and Install C.A.T.V. in Conduit	Lin. Ft.	0	\$28	\$0
Furnish and Install C.A.T.V. Direct Buried	Lin. Ft.	50	\$30	\$1,500
Furnish and Install Aerial Fiber C.A.T.V.	Lin. Ft.	0	\$15	\$0
Cable Television Total:				\$1,500
NATURAL GAS				
Furnish and Install 2" Gas Main	Lin. Ft.	0	\$35	\$0
Tie-In 2" Gas Main	Each	0	\$1,500	\$0
Furnish and Install 4" Gas Main	Lin. Ft.	0	\$35	\$0
Tie-In 4" Gas Main	Each	0	\$1,500	\$0
Furnish and Install 8" Gas Main	Lin. Ft.	0	\$56	\$0
Tie-In 8" Gas Main	Each	0	\$2,000	\$0
Furnish and Install 12" Gas Main	Lin. Ft.	0	\$87	\$0
Tie-In 12" Gas Main	Each	0	\$3,500	\$0
F. & I. 10" Steel Casing Pipe (Bored and Jacked)	Lin. Ft.	0	\$130	\$0
F. & I. 16" Steel Casing Pipe (Bored and Jacked)	Lin. Ft.	0	\$180	\$0
Gas Service Connection (Cut on Near Side)	Each	7	\$100	\$700
Gas Service Connection (Bore under Rdwy. To Far Side)	Each	0	\$500	\$0
Natural Gas Total:				\$700
WATER TRANSPORTED AND ADDRESS OF THE PARTY O			in actions.	
Furnish and Install 2" Copper Water Main	Lin. Ft.	0	\$25	\$0
Tie-In 2" Water Main	Each	0	\$1,000	\$0
Furnish and Install 6" Ductile Iron Water Main	Lin. Ft.	100	\$40	\$4,000
Tie-In 6" Water Main	Each	2	\$2,500	\$5,000
Furnish and Install 8" Ductile Iron Water Main	Lin. Ft.	50	\$54	\$2,700
Tie-In 8" Water Main	Each	1	\$2,500	\$2,500
Furnish and Install 12" Ductile Iron Water Main	Lin. Ft.	1500	\$67	\$100,500
Tie-In 12" Water Main	Each	4	\$2,500	\$10,000
Furnish and Install 60" Concrete Water Main	Lin. Ft.	0	\$652	\$0
Tie-In 60" Water Main	Each	0	\$25,000	\$0
F. & I. 10" Steel Casing Pipe (Bored and Jacked)	Lin. Ft.	0		\$0
F. & I. 16" Steel Casing Pipe (Bored and Jacked)	Lin. Ft.	0		\$0
Fire Hydrants	Each	2		\$5,000
Water Service Connection (Cut on Near Side)	Each	9		\$900
Water Service Connection (Bore under Rdwy. To Far Side)	Each	1 0		\$0
Water Total:			7	\$130,600

## SOUTHSIDE DRIVE CONCEPTUAL STAGE UTILITY RELOCATION COST ESTIMATE NORTH SECTION From National Turnpike to Strawberry Lane 3-LANE ALTERNATIVE

ltem	Unit	Quantity	Cost Per Unit	Cost
TELEPHONE		11 11 11 11		
Furnish and Install Telephone Pole	Each	3	\$5,000	\$15,000
Furnish and Install Anchors and Down Guys	Each	0	\$450	\$0
Furnish and Install 600 Pair Aerial Telephone Cable (Copper)	Lin. Ft.	0	\$17	\$0
Furnish and Install 2100 Pair Tele. Cable in Conduit (Copper)	Lin. Ft.	0	\$75	\$0
Furnish and Inst. 200 Pair Direct Buried Tele. Cable (Copper)	Lin. Ft.	90	\$12	\$1,080
Furnish 60 Strand Fiber Optic Cable (Delivered to Site)	Lin. Ft.	0	\$5	\$0
Direct Buried 108 Strand Fiber Optic Cable	Lin. Ft.	0	\$14	\$0
60 Strand Fiber Optic Cable Installed in Conduit	Lin. Ft.	0	\$20	\$0
Fiber Optic Cable Splicing for Conduit Installation	Lump Sum	0	\$7,200	\$0
Furnish and Install Pre-Cast Standard Manhole	Each	0	\$17,000	\$0
Telephone Total:				\$16,080
SANITARY SEWER		<u> </u>		
Furnish and Install 6" Sanitary Sewer	Lin. Ft.	0	\$45	\$0
Furnish and Install 8" Sanitary Sewer	Lin. Ft.	0	\$52	\$0
Furnish and Install 10" Sanitary Sewer	Lin. Ft.	0	\$60	\$0
Furnish and Install 12" Sanitary Sewer	Lin. Ft.	0	\$65	\$0
Furnish and Install Sanitary Sewer Manhole	Each	0	\$3,500	\$0
Adjust Sanitary Sewer Manhole to Grade	Each	0	\$550	\$0
Reconstruct Sanitary Sewer Manhole	Each	0	\$3,500	\$0
Reconnect Sewer Service	Each	9	\$400	\$3,600
Sanitary Sewer Total:				\$3,600

<b>Utility Relocation</b>	<b>Estimate Summary</b>
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Electric		\$18,900
Cable Television		\$1,500
Natural Gas		\$700
Water		\$130,600
Telephone		\$16,080
Sanitary Sewer		\$3,600
Sub-Total (2004 Unit Prices):		\$171,380
4.7% Escalation for 2005 (Per ENR Magazine)		\$8,055
Sub-Total (Adjusted for 2005):		\$179,435
Contingencies	15%	\$26,915
State Forces Engineering	10%	\$17,943

#### TOTAL UTILITY RELOCATION COST ESTIMATE

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\$224,294

# SOUTHSIDE DRIVE CONCEPTUAL STAGE UTILITY RELOCATION COST ESTIMATE SOUTH SECTION From New Cut Road to National Turnpike 5-LANE ALTERNATIVE

ltem	Unit	Quantity	Cost Per Unit	Cost
ELECTRIC				
Furnish and Install Power Poles (LG&E) <=60'	Each	5	\$6,000	\$30,000
Furnish and Install Stub Poles	Each	1	\$2,500	\$2,500
Furnish and Install Anchors and Down Guys	Each	3	\$450	\$1,350
Electric Total:				\$33,850
CABLE TELEVISION				
Furnish and Install Aerial C.A.T.V.	Lin. Ft.	0	\$10	\$0
Furnish and Install C.A.T.V. in Conduit	Lin. Ft.	0	\$28	\$0
Furnish and Install C.A.T.V. Direct Buried	Lin. Ft.	100	\$30	\$3,000
Furnish and Install Aerial Fiber C.A.T.V.	Lin. Ft.	0	\$15	\$0
Cable Television Total:				\$3,000
NATURAL GAS				
Furnish and Install 2" Gas Main	Lin. Ft.	0	\$35	\$0
Tie-In 2" Gas Main	Each	0	\$1,500	\$0
Furnish and Install 4" Gas Main	Lin. Ft.	1150	\$35	\$40,250
Tie-In 4" Gas Main	Each	0	\$1,500	\$0
Furnish and Install 8" Gas Main	Lin. Ft.	0	\$56	\$0
Tie-In 8" Gas Main	Each	0	\$2,000	\$0
Furnish and Install 12" Gas Main	Lin. Ft.	0	\$87	\$0
Tie-In 12" Gas Main	Each	0	\$3,500	\$0
F. & I. 10" Steel Casing Pipe (Bored and Jacked)	Lin. Ft.	0	\$130	\$0
F. & I. 16" Steel Casing Pipe (Bored and Jacked)	Lin. Ft.	0	\$180	\$0
Gas Service Connection (Cut on Near Side)	Each	51	\$100	\$5,100
Gas Service Connection (Bore under Rdwy. To Far Side)	Each	0		\$0
Natural Gas Total:				\$45,350
WATER		1 2		
Furnish and Install 2" Copper Water Main	Lin. Ft.	0	\$25	\$0
Tie-In 2" Water Main	Each	0	\$1,000	\$0
Furnish and Install 6" Ductile Iron Water Main	Lin. Ft.	300	\$40	\$12,000
Tie-In 6" Water Main	Each	6	\$2,500	\$15,000
Furnish and Install 8" Ductile Iron Water Main	Lin. Ft.	50	\$54	\$2,700
Tie-In 8" Water Main	Each	1	\$2,500	\$2,500
Furnish and Install 12" Ductile Iron Water Main	Lin. Ft.	3900	\$67	\$261,300
Tie-In 12" Water Main	Each	9	\$2,500	\$22,500
Furnish and Install 60" Concrete Water Main	Lin. Ft.	0		\$0
Tie-In 60" Water Main	Each	0	<del> </del>	\$0
F. & I. 10" Steel Casing Pipe (Bored and Jacked)	Lin. Ft.	0		\$0
F. & I. 16" Steel Casing Pipe (Bored and Jacked)	Lin. Ft.	1 0	<u> </u>	\$0
Fire Hydrants	Each	6		\$15,000
Water Service Connection (Cut on Near Side)	Each	30		\$3,000
Water Service Connection (Bore under Rdwy, To Far Side)	Each	26	<del></del>	\$13,000
Water Total:		<del> </del>	1 4000	\$347,000

## SOUTHSIDE DRIVE CONCEPTUAL STAGE UTILITY RELOCATION COST ESTIMATE SOUTH SECTION From New Cut Road to National Turnpike 5-LANE ALTERNATIVE

Item	Unit	Quantity	Cost Per Unit	Cost
TELEPHONE				
Furnish and Install Telephone Pole	Each	3	\$5,000	\$15,000
Furnish and Install Anchors and Down Guys	Each	3	\$450	\$1,350
Furnish and Install 600 Pair Aerial Telephone Cable (Copper)	Lin. Ft.	0	\$17	\$(
Furnish and Install 2100 Pair Tele. Cable in Conduit (Copper)	Lin. Ft.	0	\$75	\$0
Furnish and Inst. 200 Pair Direct Buried Tele. Cable (Copper)	Lin. Ft.	50	\$12	\$600
Furnish 60 Strand Fiber Optic Cable (Delivered to Site)	Lin. Ft.	0	\$5	\$(
Direct Buried 108 Strand Fiber Optic Cable	Lin. Ft.	0	\$14	\$(
60 Strand Fiber Optic Cable Installed in Conduit	Lin. Ft.	0	\$20	\$(
Fiber Optic Cable Splicing for Conduit Installation	Lump Sum	0	\$7,200	\$0
Furnish and Install Pre-Cast Standard Manhole	Each	0	\$17,000	\$0
Telephone Total:				\$16,950
SANITARY SEWER				
Furnish and Install 6" Sanitary Sewer	Lin. Ft.	0	\$45	\$(
Furnish and Install 8" Sanitary Sewer	Lin. Ft.	0	\$52	\$(
Furnish and Install 10" Sanitary Sewer	Lin. Ft.	0	\$60	\$(
Furnish and Install 12" Sanitary Sewer	Lin. Ft.	0	\$65	\$0
Furnish and Install Sanitary Sewer Manhole	Each	0	\$3,500	\$(
Adjust Sanitary Sewer Manhole to Grade	Each	0	\$550	\$0
Reconstruct Sanitary Sewer Manhole	Each	0	\$3,500	\$(
Reconnect Sewer Service	Each	56	\$400	\$22,400
Sanitary Sewer Total:				\$22,400

Hillity	Relocation	on Estimate	Summary
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Electric		\$33,850
Cable Television		\$3,000
Natural Gas		\$45,350
Water		\$347,000
Telephone		\$16,950
Sanitary Sewer		\$22,400
Sub-Total (2004 Unit Prices):		\$468,550
4.7% Escalation for 2005 (Per ENR Magazine)		\$22,022
Sub-Total (Adjusted for 2005):		\$490,572
Contingencies	15%	\$73,586
State Forces Engineering	10%	\$49,057

#### TOTAL UTILITY RELOCATION COST ESTIMATE

\$613,215

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# SOUTHSIDE DRIVE CONCEPTUAL STAGE UTILITY RELOCATION COST ESTIMATE NORTH SECTION From National Turnpike to Strawberry Lane 5-LANE ALTERNATIVE

Item	Unit	Quantity	Cost Per Unit	Cost
ELECTRIC		great against.		
Furnish and Install Power Poles (LG&E) <=60'	Each	3	\$6,000	\$18,000
Furnish and Install Stub Poles	Each	0	\$2,500	\$0
Furnish and Install Anchors and Down Guys	Each	2	\$450	\$900
Electric Total:				\$18,900
CABLE TELEVISION	Facility (1)	:		
Furnish and Install Aerial C.A.T.V.	Lin. Ft.	0	\$10	\$0
Furnish and Install C.A.T.V. in Conduit	Lin. Ft.	0	\$28	\$0
Furnish and Install C.A.T.V. Direct Buried	Lin. Ft.	50	\$30	\$1,500
Furnish and Install Aerial Fiber C.A.T.V.	Lin. Ft.	0	\$15	\$0
Cable Television Total:				\$1,500
NATURAL GAS				
Furnish and Install 2" Gas Main	Lin. Ft.	0	\$35	\$0
Tie-In 2" Gas Main	Each	0	\$1,500	\$0
Furnish and Install 4" Gas Main	Lin. Ft.	0	\$35	\$0
Tie-In 4" Gas Main	Each	0	\$1,500	\$0
Furnish and Install 8" Gas Main	Lin. Ft.	0	\$56	\$0
Tie-In 8" Gas Main	Each	Т о	\$2,000	\$0
Furnish and Install 12" Gas Main	Lin. Ft.	0	\$87	\$0
Tie-In 12" Gas Main	Each	0	\$3,500	\$0
F. & I. 10" Steel Casing Pipe (Bored and Jacked)	Lin. Ft.	1 0	\$130	\$0
F. & I. 16" Steel Casing Pipe (Bored and Jacked)	Lin. Ft.	1 0	\$180	\$0
Gas Service Connection (Cut on Near Side)	Each	1 8	\$100	\$800
Gas Service Connection (Bore under Rdwy. To Far Side)	Each	0	\$500	\$0
Natural Gas Total:	Laon	<del>                                     </del>	+000	\$800
				<b>,</b>
WATER			1.1	+ 12 ×
Furnish and Install 2" Copper Water Main	Lin. Ft.	0	\$25	\$0
Tie-In 2" Water Main	Each	1 0		\$0
Furnish and Install 6" Ductile Iron Water Main	Lin. Ft.	100		\$4,000
Tie-In 6" Water Main	Each	2	\$2,500	\$5,000
Furnish and Install 8" Ductile Iron Water Main	Lin. Ft.	350		\$18,900
Tie-In 8" Water Main	Each	3		\$7,500
Furnish and Install 12" Ductile Iron Water Main	Lin. Ft.	1500		\$100,500
Tie-In 12" Water Main	Each	4	4	\$10,000
Furnish and Install 60" Concrete Water Main	Lin. Ft.	1 0	<del></del>	\$0
Tie-In 60" Water Main	Each	1 0		\$0
F. & I. 10" Steel Casing Pipe (Bored and Jacked)	Lin. Ft.	1 0		<u>ψ0</u> \$0
F. & I. 16" Steel Casing Pipe (Bored and Jacked)	Lin. Ft.			\$0 \$0
Fire Hydrants		2		\$5,000
Water Service Connection (Cut on Near Side)	Each	12		\$5,000 \$1,200
Water Service Connection (Cut on Near Side) Water Service Connection (Bore under Rdwy, To Far Side)	Each	12		\$1,200
Water Total:	Each	1	\$500	\$152,100
Water Folds.		L	11	φ102,100

## SOUTHSIDE DRIVE CONCEPTUAL STAGE UTILITY RELOCATION COST ESTIMATE NORTH SECTION From National Turnpike to Strawberry Lane 5-LANE ALTERNATIVE

Item	Unit	Quantity	Cost Per Unit	Cost
TELEPHONE				
Furnish and Install Telephone Pole	Each	3	\$5,000	\$15,000
Furnish and Install Anchors and Down Guys	Each	0	\$450	\$0
Furnish and Install 600 Pair Aerial Telephone Cable (Copper)	Lin. Ft.	0	\$17	\$0
Furnish and Install 2100 Pair Tele. Cable in Conduit (Copper)	Lin. Ft.	0	\$75	\$0
Furnish and Inst. 200 Pair Direct Buried Tele. Cable (Copper)	Lin. Ft.	90	\$12	\$1,080
Furnish 60 Strand Fiber Optic Cable (Delivered to Site)	Lin. Ft.	0	\$5	\$0
Direct Buried 108 Strand Fiber Optic Cable	Lin. Ft.	0	\$14	\$0
60 Strand Fiber Optic Cable Installed in Conduit	Lin. Ft.	0	\$20	\$0
Fiber Optic Cable Splicing for Conduit Installation	Lump Sum	0	\$7,200	\$0
Furnish and Install Pre-Cast Standard Manhole	Each	0	\$17,000	\$0
Telephone Total:				\$16,080
SANITARY SEWER			-	
Furnish and Install 6" Sanitary Sewer	Lin. Ft.	0	\$45	\$0
Furnish and Install 8" Sanitary Sewer	Lin. Ft.	0	\$52	\$(
Furnish and Install 10" Sanitary Sewer	Lin. Ft.	0	\$60	\$0
Furnish and Install 12" Sanitary Sewer	Lin. Ft.	0	\$65	\$0
Furnish and Install Sanitary Sewer Manhole	Each	0	\$3,500	\$0
Adjust Sanitary Sewer Manhole to Grade	Each	0	\$550	\$(
Reconstruct Sanitary Sewer Manhole	Each	0	\$3,500	\$0
Reconnect Sewer Service	Each	12	\$400	\$4,800
Sanitary Sewer Total:				\$4,800

Electric		\$18,900
Cable Television		\$1,500
Natural Gas		\$800
Water		\$152,100
Telephone		\$16,080
Sanitary Sewer		\$4,800
Sub-Total (2004 Unit Prices):		\$194,180
4.7% Escalation for 2005 (Per ENR Magazine)		\$9,126
Sub-Total (Adjusted for 2005):		\$203,306
Contingencies	15%	\$30,496
State Forces Engineering	10%	\$20,331

#### TOTAL UTILITY RELOCATION COST ESTIMATE

\$254,133

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